

NOTE the Four (4) Desktop Icons located in the center-right group Programs used for systems at Buck Scientific, Sacred Heart Univ, NOTE: Background show virus that appeared when attempting of Fifteen (15) Scientific Icons. These are Instrument Control VTEC Labs, Chem-chek Labs and several Clients. to restore some files.



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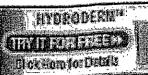
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BUCK FUN-SClencetm Projects

Liquid Chromatography (HPLC)

Experiments for the Buck Scientific Model BLC-10/20 High-Performance Liquid Chromatographs & Peak-Simple Software











Activities in Analytical Chromatography

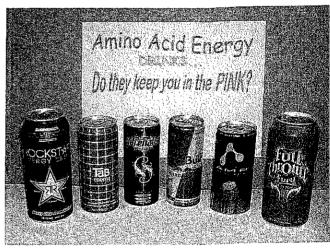
BUCK FUN-SClencetm Projects FLUOR / Rev.2

Experiments for the Buck Scientific FL-380 Filter Fluorometer w/ Dual Wavelengths for **EMISSION and EXCITATION**







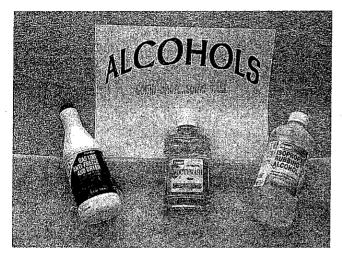


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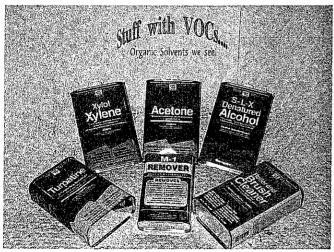
BUCK FUN-SClencetm Projects

Gas Chromatography (GC) / Rev.2

Experiments for the Buck Scientific 910-/310-Gas Chromatographs w/ Peak-Simple Software & assorted Packed / Capillary Columns









Activities in Analytical Chromatography

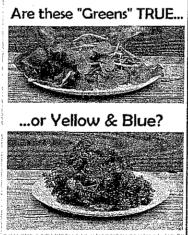
BUCK FUN-SClencetm Projects UV-VIS / Rev.2

Experiments for the Buck Scientific CE-2000/-3000 series Single-Beam Scanning UV-VIS Spectrophotometers

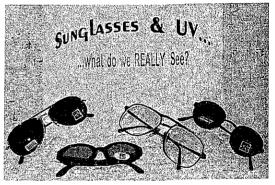








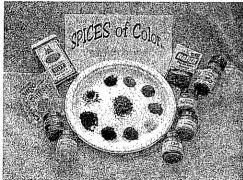


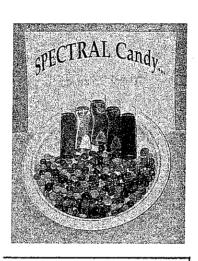


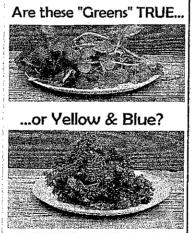
BUCK FUN-SClencetm Projects UV-VIS / Rev.2b

Experiments for the Buck Scientific VIS-100 / UV-105 Single-Wavelength "Colorimeter" Spectrometers













BUCK FUN-SCIencetm Projects Mid-IR / Rev.1C

Experiments for the Buck Scientific M-500 Infra-Red Single-Beam Scanning **Spectrometer**

[PICTURES COMING SOON!]

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> ACS Membership Benefits

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Stay Competitive at the ACS National Exposition in

Sample the tremendous business opportunities and energy inside the American Chemical Society (ACS) National Exposition in Anaheim, March 29–31, 2004, during the 227th ACS National Meeting. Network with technical professionals from 300+ companies and organizations who can help you improve your R&D, business, and laboratory



ACS

operations. The exposition will be open in Hall C of the Anaheim Convention Center on Monday, March 29, from 9 a.m. to 5 p.m.; Tuesday, March 30, from 7:30 a.m. to 5 p.m.; and Wednesday, March 31, from 9 a.m. to 1 p.m..

Gather information on new products, services, and emerging trends. More than 500 booths will showcase the latest instruments, books, computer hardware and scientific software, contract services, and a wide array of chromatographic, lab and safety equipment. Keep abreast of innovative technologies, new business models and alliances, and other high-growth opportunities in the chemical and allied industries.

Learn about new techniques and applications in free exhibitor workshops. Attend valuable free workshops offered by sponsoring exhibitors on Monday. Tuesday, and Wednesday. All exhibitor workshops will be held in the Anaheim Hilton and Towers. Register before March 19 to secure your seat. After March 19, you will need to register on-site with the sponsoring exhibitors at their booths.

Explore poster sessions of ACS Technical Divisions inside the Exposition. On Monday, visit poster sessions for Agricultural & Food Chemistry (AGFD) and Agrochemicals (AGRO) divisions from 10:00 a.m. to 12:00 noon and grades K–12 National Chemistry Week 2003 poster competition all day. On Tuesday, explore posters from Petroleum Chemistry division (PETR) from 7:30 to 10:30 a.m.; Carbohydrate Chemistry division (CARB) from 2:00 to 5:00 p.m.; and grades K–12 National Chemistry Week 2003 poster competition all day. On Wednesday, visit the poster session of Organic Chemistry division (ORGN) from 9:00 to 11:00 a.m.:

Maximize your time by preplanning your Exposition visit. Use our on-line <u>Directory of Exhibitors</u> to get a complete listing of exhibitors and learn more about a company's products and services; use our Internet-based ExpoMap to prepare a customized floor plan to optimize your exposition visit.

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Coming to the USA

2007 Heroes of Chemistry Announced

A Truly Remarkable Man. an American Chemical Society Legacy Leader

Signup for Regional Meetings Will Be Available

ACS Board Adopts Latest Edition of Ethics Code

Chinese, U.S. Researchers in Chemical Biology Meet

Enjoy free Internet access and sayor free morning coffee. Attendees can use free Internet access at the Internet Café, courtesy of chemistry.org., and enjoy free coffee as they explore the exposition each morning before 10 a.m.

Participate in our prize and souvenir activities, and visit during special Tuesday morning hours. The first 7,500 visitors to the exhibition will receive a free souvenir, and all attendees can enter to win a Toshiba laptop each day of the exposition. On Monday, attendees can test their trivia knowledge and win a gift from ACS Chemical & Engineering News at Booth 360 and ACS chemistry.org at Booth 462. Meet celebrated author Robert L. Wolke from 1 to 3:00 p.m. on Monday at the Chemical & Engineering News Booth.

On Tuesday, the exposition opens at 7:30 a.m. to give attendees dedicated time to visit the exhibits free without conflicts with the technical programming. Early attendees can enter into a drawing to win one of ten \$200 Amazon.com gift certificates, and the first 750 attendees will receive a free caricature.

Exhibitor Workshops on Monday, March 29

Rapid Lead Identification with ROCS and FRED

Sponsor: OpenEye Scientific, Booths 816, 818, Instructors: Bob Tolbert and Jeremy Yang. 8:30 to 11:00 a.m. Room: Mezzanine 5.

The chemistry of molecular interactions boils down to shape and electrostatics. This workshop focuses on rapid lead identification in drug discovery using OpenEye software developed under that philosophy. It will begin with a brief overview of OpenEye's complete offering, before focusing on ROCS and FRED. ROCS analyzers ligand similarity via rapid 3-D molecular shape searches, and Register on-line before March 26 FRED offers extremely fast. exhaustive docking of ligands within a protein active site. Either can be guided to match known pharmacophore features. The workshop will include some theory, real example cases, software demonstrations, and a handson tutorial.

ACS National Exposition March 29-31, 2004 Anaheim, CA

Visit the 300+ exhibiting companies in Hall C of the Anaheim Convention Center on Monday (March 29), 9 a.m. to 5 p.m., Tuesday (March 30), 7:30 a.m. to 5 p.m., and Wednesday (March 31), 9 a.m. to 1 p.m.

Interact with the exhibitors, including current exhibitors, locate their booths in Anaheim, and plan your exposition

Reserve your seat for an exhibitorsponsored workshop ACS 227th National Meeting March 28-April 1, 2004 Anaheim, CA

Register on-site between March 27 and April 1: Hall 8. Anaheim Convention Center

Reserve your housing

Plan your meeting schedule. including technical sessions, workshops, exhibitorsponsored workshops, and social events.

E-Communications, E-Learning, and chemistry.org: Opportunities, Strategies, and Development

Sponsor. ACS chemistry.org, Booth 462. Instructor: Robin Steffek. 12:00 noon to 2:30 p.m. Room: Mezzanine 5. This workshop focuses on opportunities and strategies for developing Web functionality to help users of chemistry.org benefit from various ACS e -communication vehicles (e.g. online newsletters, e-mail alerts, discipline-specific Web resources, online tools), and e-learning technologies. Topics include defining the ideal content for new Web resources: ensuring responsible e-communications; determining ideal frequency and format of e-communications; user preferences and feedback options for e-communication vehicles; and evaluating user interface, preferences, and user-friendly design for e-learning applications.

Rational Drug Design Based on Pharmacophore Modeling

and 3-D Database Searching

Sponsor: Accelrys, Booth 302. Instructors: Samuel Toba and Omoshile Clement. 12:00 noon to 2:30 p.m. Room: Mezzanine 6

This workshop presents an overview and application examples of Catalyst as a unique rational drug design tool in pharmacophore modeling and 3-D database searching. A pharmacophore model contains the molecular framework that carries the essential binding features responsible for a ligand's binding affinity. This workshop will use Catalyst 4.9 and include examples such as pharmacophore-based alignment of molecules, shape-based 3-D searching, and automated generation of pharmacophore hypothesis based on structure—activity relationship data. The release of Catalyst 4.9 provides a one-boxed-solution on Linux (client and server).

New Techniques for Lead Generation and Candidate Evaluations

Sponsor: Accelrys, Booth, 302. Instructors: Omoshile Clement and Tom Stockfisch. 3:30 to 6:00 p.m. Room: Mezzanine 5. This workshop will describe new techniques in designing focused subset libraries incorporating validated ADME/Tox constraints that provide leadlike compounds, as well as innovative QSAR approaches to lead optimization and selection criteria.

Interactive Learning with ChemWork Online Homework Sponsor. Houghton Mifflin Company, Booth, 327. Instructors: Steve and Susan Zumdahl. 4:00 to 5:00 p.m. Room: Mezzanine 7.

Participate in a demonstration and discussion of ChemWork online homework, which is designed to reinforce chemistry concepts, provide questions, hints, and immediate feedback to help college students work through the problem-solving process. This program supports interactive learning, the Zumdahl's approach to learning general chemistry; it has been used successfully at the University of Illinois over the past five years.

Exhibitor Workshops on Tuesday, March 30

Recent Developments in Scanning Probe Microscopy for Chemistry and Related Fields

Sponsor. Veeco Instruments, Booths 602, 604. Instructors: Miodrag Micic, Chunzeng Li, and Sergri Magonov. 8:00 to 10:30 a.m. Room: Mezzanine 5.

AFM Studies at Various Temperatures: Advanced AFM techniques and accessories make it possible to characterize polymers over a substantial temperature range. The instructors will discuss methods for visualizing melting and crystallization at various temperature points, for materials including polyethylene, polypropylene, syndiotactic polystyrene, etc. Near–Field Scanning Optical Microscopy: A review of recent progress in instrumentation development and applications of the Aurora-3 platform will be presented. The new turnkey modular near-field spectroscopy package will be introduced. Scanning Electrochemical Microscope (SEC p.m.): This new option to the Digital Instruments MultiMode AFM allows the user to measure the potential profile across the electrical double layer at solid—liquid interfaces and surface topography by feeding back on the potential.

E-Communications, E-Learning, and chemistry.org:
Opportunities, Strategies, and Development
Sponsor. ACS chemistry.org, Booth 462. Instructor: Robin
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This workshop focuses on opportunities and strategies for
developing Web functionality to help users of chemistry.org
benefit from various ACS e-communication vehicles (e.g. online
newsletters, e-mail alerts, discipline-specific Web resources,
online tools, etc.), and e-learning technologies. Topics to be
discussed include defining the ideal content for new Web
resources; ensuring responsible e-communications;
determining ideal frequency and format of e-communications;

user preferences and feedback options for e-communication

vehicles; and evaluating user interface, preferences, and user-friendly design for e-learning applications.

Postdoctoral and Senior Research Associateship Awards Sponsor. National Research Council of the National Academies, Booth 488. Instructor: H. Ray Gamble. 3:30 to 6:00 p.m. Room: Mezzanine 5.

The National Research Council of the National Academies offers awards in all areas of science and engineering for postdoctoral and senior research to be conducted at participating U.S. government laboratories. Annual stipend for recent Ph.D. recipients ranges from \$36,000 to \$61,000 and is higher for additional experience. Awards include relocation, professional travel and health insurance. Awards are for one year and are renewable for up to three years. Detailed program information, including information on how to apply, can be found at http://www.nationalacademies.org/nrc/. Application deadlines: February 1, May 1, August 1, and November 1.

Molecular Modeling in Undergraduate Education Sponsor: Wavefunction, Booths 301, 303. Instructors: Jurgen Schnitker and Sean Ohlinger. 8:30 to 11:00 a.m. Room: Mezzanine 6.

The workshop introduces the use of molecular modeling technology in teaching relevant introductory chemistry topics. Through hands-on work with molecular modeling applications on laptop computers, attendees will use molecular mechanics, quantum chemical methods, and molecular dynamics to explore properties of molecules and bulk matter. Topics covered include atomic and molecular orbitals, ionic and covalent bonding, states of matter, solutions, gas laws, acids and bases, thermodynamics, dipole moments, stereochemistry, and much more.

Discovery Studio Structure-based Design Workshop Sponsor: Accelrys, Booth 302. Instructor: Marguerita Lim Wilby. 12:00 noon to 2:30 p.m. Room: Mezzanine 6. This workshop will focus on Accelrys' new offering of Structure–Based Design tools in Discovery Studio Modeling 1.2—SBD. This new application supports the three main areas of workflow: scoring ligand–receptor interactions, de novo design, and docking.

Real-World Instrumental Analysis with the FUN-SCI Program

Sponsor: Buck Scientific, Booth 139. Instructor: Jerry DeMenna. 3:30 to 6:00 p.m. Room: Mezzanine 6. Come see "fun" and "interesting" (aka, non-boring!) experiments for high school/college undergrad labs and graduate research with analytical instrumentation. Based on compact and economical systems for IR, UV-Vis spec, fluorimetry, colorimetry, AA spectrometry, GC and HPLC, Chem-Chek's "FUN-SCI" Program and Buck's Instruments have made Analytical Chemistry possible on the tightest budget...or in the smallest mobile van! These turnkey projects can be modified to meet the specific needs of your curriculum and expanded to encompass a dedicated discipline. With the right tools, it's easy to go "outside" the box! Come see for yourself!

Increasing Throughput in Chromatographic Autopurification Using New Instrument Technology and Conditional Gradient Logic

Sponsor. Dionex Corporation, Booths 634, 636. Instructor: Andreas Becker, 1:00 to 2:30 p.m. Room: Mezzanine 7. In developing its new series of autopurification systems, Dionex has paid particular attention to eliminating bottlenecks associated with sample processing and reliable component purification and collection. This workshop discusses the use of new instrument technology, combined with off-line column regeneration, to increase throughput by performing parallel automation. We discuss a novel software routine that enables unattended detection of analytes of interest. The run completes automatically after the analyte is detected. Then the system advances to the next sample, eliminating sample idle time.

Safeguards ensuring successful collection of all desired components will be discussed.

Exhibitor Workshops on Wednesday, March 31

Lead Optimization and Productivity Solutions for Chemists Sponsor. Accelrys, Booth 302. Instructor: Shikha Varma. 12:00 noon to 2:30 p.m. Room: Mezzanine 5.

This event will focus on visualization, communication and computational methods that allow medicinal chemists and bench scientists to prioritize and design lead candidates and libraries for synthesis. Topics to be discussed include ligand – receptor interactions, pharmacophore modeling, overlaying molecules, ADME/property prediction, database searching, library enumeration, reagent selection and improved drug discovery through team collaboration. Attendees will receive a hand-on demonstration of such software applications as DS Accord for Excel CombiChem and ADME, Accord Components and SDK, DS ViewerPro and DS MedChem Explorer, which were designed for chemists to provide these solutions.

Introduction to Type and Interpersonal Effectiveness Sponsor: Division of Chemical Technicians. Instructor: Curtis Swisher, Dow Chemical Co. 8:00 a.m. to 5:00 p.m. Room: Mezzanine 7.

This workshop is designed to help attendees become more effective in their interactions with others at work, at home, and in the community. Through fun, interactive exercises, participants will determine their own Psychological Type preferences and learn why they process information and behave as they do. They will get a better understanding of and value the differences that exist between people, and learn how to interact with others more effectively. An individual's type is applicable to the job, family relationships, learning styles, and career development. Participants will receive reference materials for on-going learning. Cost: \$100.00. Pre-registration is required. For further information and a registration form, please contact Patricia M. Wilson, Bayer Corporation, (412) 777–4587.

This article first appeared on March 1, 2004.

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